

1   **WHAT IS CLAIMED IS:**

2           1. A composite golf club head comprising:

3           a strike plate made of a light-weight alloy, having a front, a rear, a toe, a  
4   heel, a shank formed at the heel of the strike plate, and a rim formed around the  
5   rear of the strike plate to form a hollow cup-like body;

6           a body bonded to the rim and being composed of a crown and a sole  
7   made of fiber prepreg material;

8           a sole plate made of metal, mounted in the sole and having a seat formed  
9   in the sole plate and a hole defined through the seat; and

10          a balance weight mounted in the hole.

11          2. The composite golf club head as claimed in claim 1, wherein the fiber  
12   prepreg material is carbon fiber impregnated with resin.

13          3. The composite golf club head as claimed in claim 1, wherein the fiber  
14   prepreg material is glass fiber impregnated with resin.

15          4. The composite golf club head as claimed in claim 1, wherein the fiber  
16   prepreg material is Kevlar™ fiber impregnated with resin.

17          5. The composite golf club head as claimed in claim 1, wherein the fiber  
18   prepreg material is boron fiber impregnated with resin.

19          6. The composite golf club head as claimed in claim 1, wherein the fiber  
20   prepreg material is titanium fiber impregnated with resin.

21          7. The composite golf club head as claimed in claim 1, wherein the fiber  
22   prepreg material is copper fiber impregnated with resin.

23          8. The composite golf club head as claimed in claim 1, wherein the fiber  
24   prepreg material is aluminum fiber impregnated with resin.

1           9. The composite golf club head as claimed in claim 1, wherein an  
2 opening is defined through the sole, and the sole plate is mounted in the opening.

3           10. A method for manufacturing a golf club head as claimed in claim 1  
4 comprising steps of :

5           preparing the individual elements comprising casting or forging the  
6 strike plate with the shank, the sole plate and the balance weight; cutting and  
7 bonding the fiber prepreg material based on the profiles of the crown and the sole;  
8 and preparing adhesive sheets and an air bladder;

9           pressing prepreg material comprising pressing the fiber prepreg material  
10 pieces in corresponding dies to form the crown and the sole;

11          assembling the golf club head comprising attaching the strike plate, the  
12 crown, the sole and the sole plate together by the adhesive sheets; and inserting  
13 the air bladder through the hole in the golf head with a nozzle extending out of  
14 from the hole;

15          shaping the golf club head comprises pumping air into the air bladder to  
16 pre-shape the golf club head;

17          curing the prepreg materials comprising heating, pressing and blowing  
18 the pre-shaped golf club head in a hot-press molding die to cure the fiber prepreg  
19 materials of the body; and the air bladder pressing the adhesive sheets to tightly  
20 abut the inside wall of the golf head;

21          removing the golf club head from the die comprises removing the cured  
22 golf club head from the hot-press molding die, and removing the air bladder  
23 through the hole from the golf club head; and

24          finishing the golf club head comprising finishing the golf club head,

- 1 installing the balance weight in the hole in the sole plate and painting the golf
- 2 club head.